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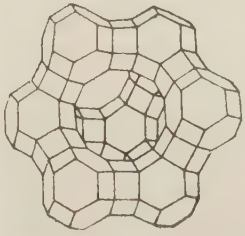
CARBONIOGENIC ACTIVITY OF ZEOLITES

P. A. JACOBS, Centre for Surface and Colloid Chemistry, Catholic University of Louvain, Belgium

Drawing on his extensive experience with crystalline aluminosilicates, the author has, in this study, made a unique contribution to the subject of structure-reactivity relations in molecular sieve zeolites. The book sets forth the important practical uses of zeolites in the petrochemical industry and describes why they are such outstanding solids.



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CONTRIBUTORS: G. Bauer, R. Blinc, F. Borsa, H. R. Borsch, C. Bucci, T. S. Change, E. Courtens, P. G. de Gennes, M. Droz, F. Ealdner, J. Feder, S. K. Ghosh, G. Guidi, F. Harbus, I. Hatta, P. Heller, R. Kind, I. Kondor, J. Kötzler, L. L. Liu, A. Loesche, P. F. Meier, K. H. Michel, S. Milosević, K. A. Müller, P. M. Richards, A. Rigamonti, M. Schara, T. Schneider, E. Simánek, H. E. Stanley, E. Stoll, N. Szabo, P. Szépfalusy, H. Thomas, Th. von Waldkirch, W. Windsch.

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CONTRIBUTORS: L. Accardi, H. Araki, A. Connes, F. Guerra, R. Herman, N. M. Hugenholz, R. V. Kadison, D. Kastler, W. Krieger, C. Lance, G. K. Pedersen, J. E. Roberts, D. W. Robinson, E. Størmer, M. Takesaki, J. Tomiyama, A. Van Daele, J. Yngvason.

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CONTRIBUTORS: G. Angelino, G. Benedek, J. C. Bilello, D. Birchon, S. Boffi, V. Bortolani, G. Caglioti, V. Celli, J. Friedel, A. N. Goland, G. T. Hahn, P. B. Hirsch, H. C. Kim, G. Kostorz, N. H. March, M. Mirabile, H. Nijman, G. Piatti, P. Schiller, A. Schneiders.

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CONTRIBUTORS: P. Armbruster, J. P. Bondorf, R. Broada, B. Buck, N. Cindro, P. Colombani, E. F. da Silveira, L. R. Dodd, U. Facchini, H. Flocard, P. Fröbrich, B. Giraud, G. Hagemann, M. Harvey, P. Herskind, M. Ishihara, D. Kurath, M. Lefort, J. L. Le Tourneux, R. Lipperheide, A. Lumbroso, P. R. Maurenzig, M. Mermaz, H. Morinaga, S. G. Nilsson, S. Ogaza, D.

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CONTRIBUTORS: C. Atzeni, H. O. Berktay S. Candau, E. F. Carome, J. de Klerk, K. Dransfeld, R. R. Goodman, J. Joffrin, A. Levelut, R. B. Lindsay, P. Martinoty, W. P. Mason, L. Masotti, J. J. McCoy, C. J. Montrose, I. Rudnick, R. W. B. Stephens, T. G. Wang, S. Yip.

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edited by **N. BLOEMBERGEN**

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CONTRIBUTORS: S. A. Akhmanov, J. A. Armstrong, A. Bambini, F. Bassani, J. E. Bjorkholm, N. Bloembergen, R. G. Brewer, F. De Martini, J. Ducuing, J. J. Forney, D. Frigione, G. Guiliani, H. Haken, T. W. Hansch, W. Kaiser, A. Labereau, K. Lucken, P. Mataloni, A. Quattropani, Y. R. Shen, F. Simoni, R. Vallauri, J. J. Wynne, M. Zoppi.

Course LXVI 28 July - 9 August 1975:

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CONTRIBUTORS: C. Atzeni, J. Baarli, L. Bramati, P. Caldirola, J. R. Cunningham, J. R. Greening, P. G. Hugenholtz, O. Ilari, B. Larsson, P. Lerch, H. Lundquist, P. Malmborg, L. Masotti, J. B. Massey, R. Milanesi, R. Oliver, P. Redi, D. Rodbard, A. Tacconi, N. G. Trott, C. Zeelenberg

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edited by **R. L. PARKER,** *National Bureau of Standards, Washington D.C., U.S.A.,* **A. A. CHERNOV,** *Institute of Crystallography, Academy of Sciences of the U.S.S.R.,* **G. W. CULLEN,** *RCA Laboratories, Princeton, N.J., U.S.A., and* **J. B. MULLIN,** *Royal Signals and Radar Establishment, Malvern, U.K.*

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In the 92 papers published here, all aspects of crystal growth theory and mechanisms, techniques of crystal growth, the growth of materials for research and industrial applications, and crystal characterization are covered in both invited and contributed papers, continuing the traditions of the previous four conferences.

New theories and techniques, novel apparatus, and advanced characterization methods are particularly emphasized. One major recent development reflected in these papers is that crystal growth researchers are already making extensive use of the computational activities which have become available, with computers based on single-crystal silicon. Thus such computers are now widely employed both to develop the theory and to improve the practice of crystal growth, for example, by using computer simulation techniques. This volume gives an outstanding survey of these and many other recent advances in this dynamic field.

CONTENTS: Both contributed and invited papers are presented under the following section headings. Only the authors of the 24 invited papers are listed here: **SECTIONS: I. Theory and Nucleation** *(G. H. Gilmer, J. S. Langer, H. Müller-Krumbhaar, I. Gutzow).* **II. Vapour Growth and Epitaxy** *(A. A. Chernov, J. B. Mullin, M. W. Richardson, B. I. Noläng, G. Honjo, K. Takayanagi, K. Yagi, H. Höche, H. Bethge).* **III. Solution Growth and Electrocrystallization** *(G. H. Nancollas, V. Bostanov, P. Bennema, J. P. van der Eerden).* **IV. Organic and Biocrystals** *(B. Wunderlich).* **V. Flux Growth** *(W. Tolksdorf).* **VI. Liquid Phase Epitaxy** *(H. J Scheel).* **VII. Melt Growth** (Basic Studies) *(M. E. Glicksman).* **VIII. Fluid Dynamics and Microgravity** *(J. R. Carruthers).* **IX. Melt Growth, Oxides** *(B. Cockayne).* **X. Growth Techniques and Related Theory** *(P. I. Antonov, S. P. Nikanorov, V. A. Tatarchenko, T. Surek, B. Chalmers, A. I. Mlavsky, S. R. Coriell, M. R. Cordes, D. T. J. Hurle).* **XI. Euctectics and Alloys** *(J. W. Rutter).* **XII. Special Materials and New Developments** *(R. Nitsche, V. Krämer, M. Schuhmacher, A. Bussmann).* **XIII. Defects** *(N. Kato).*

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